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*An Extract*

*Of a Letter, written by D. B. to the Publisher, concerning the present Declination of the Magnetick Needle, and the Tydes, May 23. 1668.*

Sir, I here present you with a Scheme of the *Magnetical Variations*, as it was sent me by Capt. *Samuel Sturmy*, an experienced Seaman, and a Commander of a Merchant Ship for many years; who (as he assures me) took the Observations himself in the presence of Mr. *Staynred*, an antient Mathematician, & others, in *Rownham-Meadowes* by the water-side, in some such approach, I think, to *Bristol*, as *Lime-house* or the Fields adjoyning are to *London*. This (as the Table shews) was taken

Observed June 13. 1668.					
Sun's Observ'd Altitude.	Magne-tical Azimuth.	Suns true Azimuth.	Variat. Wester-ly.		
Gr.	M. Gr.	M. Gr.	M.	G.	M.
44	20 72	00 70	38	I	22
39	30 80	00 78	24	I	36
31	50 90	00 88	26	I	34
27	43 95	00 93	36	I	24
23	20 103	00	101 23	I	23

*June 13. 1666.* They observed again in the same day of the next year, viz. *June 13. 1667*; and then they found the Variation increas'd about 6. minutes *Westerly*.

Now he promiseth to take the Observations in the same Company and Place, on the 13th. *June* next following, with a Quadrant of 6 foot *radius*, accurately divided into minutes, and with a very good Needle about 8. inches long; and he doubts not, but the Observations shall be as exactly made, as can be done by any Men in any place of the World.

He adds, that he has found in several places or Meridians, upon his own Observations, from 2. min. to 7. minuts some difference. In this Table he notes the greatest distance or difference to be 14. minutes; and so taking the mean for the true Variation, he concludes it then and there to be just 1. deg. 27. min. viz. *June 13. 1666.*

The same person promiseth an exact accompt concerning Tydes

Tydes there, according to the directions formerly given in the *Transactions*. At present he assureth from many former Observations, that the biggest *Spring-Tydes*, and *Annual Tydes* there, are about the *Aequinoxes*, according as the Moon is neer the Full, or Change, before or after that time. Of this you may expect a more perfect account hereafter.

*An Extract.*

*Of a Letter concerning an Optical Experiment, conducive to a decayed Sight, communicated by a Worthy person, who found the benefit of it himself.*

I Am to acquaint you of an Experiment, if it may deserve that name, and not rather that of a Trifle ; the matter of which is known to many, but un-applied (for ought I know) to such use as it affords. And the use is to my self of greater value, than you'll easily imagine, and I think, it may be equally profitable to many. Thus it is : you know, I have mourn'd for the loss of my eyes. I confess my unmanliness, that I have shed many tears in my study for want of them ; but that was quite out of the way of recovering them. I know not, whether by standing much before a blazing Fire, or by writing often right before a bright Window, or what else might be the cause of this decay of my sight, who am not above 60 years of age. But I seem'd always to have a kind of thick smoak or mist about me, and some little black balls to dance in the air about my eyes, and to be in the case, as If I came into a room suddenly from a long walk in a great Snow. But so it was, I could not distinguish the Faces of my acquaintance, nor Men from Women in rooms that wanted no light. I could not read the great and black English Print in the Church-Bibles, nor keep the plain and trodden paths in Fields or Pastures, except I was led or guided. I received no benefit by any *Glasses*, but was in the case of those, whose decay by Age is greater than can be helped by *Spectacles*. The fairest Prints seemed through Spectacles like *blind Prints*, little black remaining.

Being in this sad plight, what trifles can you think hath brought me help, which I value more than a great Sum of Gold ? Truly,